SOUTHERN EXTILE BULLETI

VOL. III

CHARLOTTE, N. C., MAY 23, 1912

NUMBER 12

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New Cotton

Mills

Re-Organization

of

Old Mills

a Specialty

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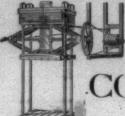
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TEXTILE BULLETIN

VOL. 3

CHARLOTTE, N. C., MAY 23, 1912

NUMBER 12

Tariff Board Report

Compilation of Yarn Organization in Different Mills for the Same Count of Yarn, with Labor Cost for Each Mill Ring-Spun Warp Yarn

King-Span Wally Land																	
		Finisher	Card		ng sliver per yard)		Sl	ubber '	Intern	nediate	Fin	e frame		. Sı	inning fran	ne	Labor
	Mill and yarn number	lapper (ounces per yard)	sliver (Grains per yard)	First proc-	Second proc-	Third process,	Hank	Speed, front roll (revolu- tions per minute.	Hank roving.	Speed, front roll (revolu- tions per minute),	- Executive	Speed, front roll (revolu- tions per minute).		Speed of spindles (revolu- tions per minute)	Speed, front roll (revolu- tions per minute)	Twist per inch	cost per pound of yarn
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(Continued on Next Page)

Compilation of Yarn Organization in Different Mills for the Same Count of Yarn, with Labor Cost for Each Mill Ring-Spun Warp Yarn

Continued from Page 3:

	Finisher	er Card	Drawing sliver (grains per yard)			Slu	bber	Interm	ediate	Fine	frame	Jack	frame	Spinning frame			Labor
Mill and yarn number	lapper (ounces per yard)	sliver (Grains per yard)	First process.	Second process.	Third process,		Speed, front roll (revolu- tions per minute.	Hank roving.	Speed, front roll 'revolu- tions per minute.	Hank	Speed, front roll (revolu- tions per minute).	Hank	(revolu-	Speed of spindles (revolutions per minute)	Speed, front roll (revolu- tions per minute)	Twist per inch	cost per pound of yarn
No. 21 yarn: Mill No.— 7	14 13 13 10 13.50 10.50 14 14 11.50	50 60 65			50 72 70 94 50 61 65	0.44 .55 .40 .50 .50 1.00 .73 .56	205 180 189 200 170 114 175	1.20	298 165 160	5.13 3 2.25 2.78	160 135 3 110 120 150 5 154 8 119			8,900 9(000 7,650 8,600	120 130 130 130 130 0 120 113 128	18.33 21.76 21.77 18.00 5 22.27 22.21 21.76	.01712' .03186' .01712' .02172: .03031'
Mill No.— 30 50 47 48 70 59	13.50 12 12.50 12.50 13 14.50 11.50	52 58 56 55 65			62 60 66	.50 .50 .40 .50 .54 .50	205 188 212 172 160 221	1 1.08 1 1.50 1.54	170 153	3.13 3.13 3.33 4.28 3.78	132 145 2 138 3 141 5 138 5 138			9,200 9,300 8,700 9,100 7,600	118 130 131 120 130 130 143	24.37 23.00 23.00 23.28 21.37 16.42	.02026 .02305 .01885 .01874 .02434
0. 24 yarn: Mill No.— 1 50 59 65	12 8	60 56 52 84.8 55 52			50 70 86 60	.50 .70 .50 .37 .50	196 205 200 199	2 1.50 .81 1.50	112 158 200 169	4.60 5 2.09 3.20	96 105 9 155 0 149	6.3	5 100 94	9,500 9,000 8,500	122 110	23.27 24.42 23.25	.01511
0. 28 yarn: Mill No.— 1 7 19 38 50 39 41 44 54 53 37 39 41 59 70 60 65	11.4 12 12 12 12.8 12.8 12 12.5 7.75 13 15 8 14.5 14	57 46 52 65 60 58 50 58			63.1 63 65 70 72 60 59 64 51 56 55 70 86 60 60	.50 .55 .52 .68 .50 .44 .47 .56 .60 .66 .66 .55 .33	170 190 178 2 205 197 1 154 170 2 200 6 210 2 204 183 165 7 209 4 160 5 175	1.06 1.41 1.85 1.50 1.30 1.26 1.48 1.51 1.76 1.60 1.26 1.50 1.30	155 150 120 158 180 180 145 140 146 5 158 10 165 150 165 150 165 150 165 165 165 165 165 165 165 165 165 165	5.56 5.41 6.55 4.21 4.55 5.21 5.21 4.2.0 4.21	00 118 10 124 102 105 126 127 128 22	6.33	5 136	9,000 9,000 9,000 9,280 -9,400 9,400 7,000 7,000 9,200 9,200 9,400 9,200	107 132 136 108 108 115 115 116 117 118 119 119 119 119 119 119 119 119 119	27.38 22.49 24.00 26.46 25.29 35.17 25.00 26.85 3 25.36 3 25.17 5 26.49 25.38	.02416 .02999 .03033 .02522 .03806 .02790 .02522 .02331 .0406
o. 29 yarn: Mill No.— 7 14 22 35 36 44 37	12 14 -10.50 10.50	55 58	6	5 6	58 8 68 72 66 59	1 .51 .61 .55 .6	0 175 0 145 6 200 5 207 4 170	1.86 1.42 1.30 1.30 1.41	128 148 6 174 7 150 8 140	5.3 4.5 4.1 4.2 4.2	8 120 0 121 6 200 4 125 5 123	8 8 8 8		8,433 9,400 9,000 9,200 9,400	0 10- 0 11- 0 10- 0 11- 0 11- 0 11-	25,22 4 25,00 4 24,00 0 25,65 0 25,00	.0169
No. 30 yarn: Mill No.— 3 4 7 8 13 18 49 39 59 66 66	11 14 16 10.5 13 11 7.7 13 8 14 11.5 12.5	59 44. 56 0 40 56 48 48 46 84. 55 0 52	8	ļ	63. 50 0	.7	2	5 2 1.0 5 2 1.7 1.2 1.1 1.5 1.6 1.5 1.5	99 15: 55 13: 60 16: 60 14: 1 20: 60 16: 41 16: 44 18: 60	8 5.2 5 5.5 8 6.2 2 5.5 8 5.2 8 5.2 5 3 4.7 5 5.1 2.0 9 3.2 9 4.5	100 101 101 101 101 101 101 101 101 101	3 5 6 0 0 0 5 5 7 7 6 8 8 8 8 8 8 7 7 7 7 7 9 9 9 9 9 9 9 9 9	5 10	8,00 9,64 9,50 8,57 9,50 0 1 9,20 9,80 0 1 8,50 7,90 8	0 9 1 10 0 11 0 11 0 11 0 11 0 11 0 11 0	5 13.95 7 28.38 00 26.00 25.27 4 24 00 27.27 00 27.78 00 26 33 18.38 00 23.25	0273 0270 0188 0303 0477 0306 0306
No. 36 yarn: Mill No.— 19 38, 41 52 54 57	12 10.8 11.5 12				80 . 50 . 72 . 64	.5 .4 .4 .5 .6	5 256 5 167 0 216 0 200	1.2 1 1 3 1.1 0 1.5	5 198 5 216 6 14	3 1 2.6 4 3 6 6.2	17	2 8 5 8 6 8	9 11: 9:	9,00 8 9,40 6 8,40 9,00	0 12 0 11 0 9 0 9	5 26 0 27.78 8 23.57	.0469 3 .0394 7 .0335 3 .0241

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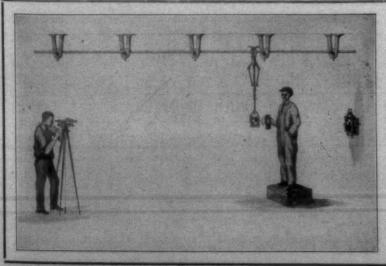
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No. 40 yarn: Mill No.— 57 14 21 12 38 12 46 16 60 14 61 12.5 66 12.5	55 60 . 48 55 44 43	60 .50 	199 1.50 220 1.35 250 1.25 170 1.04 180 1.25 210 1 190 1.04	145 3 195 3 150 2.30 164 3 200 2.50	149 8 91 140 8 95 182 8 94 140 7.40 108 122 8 69 190 6.25 112 100 8 108	9,293 98 9,000 120 9,000 104 8,800 110 10,000 128 9,190 100 10,200 104	31.38 .023717 30.50 .051981 26.02 .048019 26.88
No. 42 yarn: Mill No.— 5 12 38 12 42 12	40 58 46 69	59. 57 80 57. 50	206 1.25 250 1.25 223 1.25	195 3	145 8.50 118 182 8 102 155 9.43 98	9,000 122 9,000 112 8,500 90	27.50 .050268 26 .040319 29.70 .051254



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Cotton Goods in Italy

Extracts from Report of Commercial Agent R. M. Odell

is lower than that prevailing in operatives are often able to the United States, it is much higher their food supplies at prices than 10 years ago. This is due in than they would otherwise. These large measure to the welfare work stores have been established in pracwhich the owners of many mills Lombardy and Piedmont, and they have taken up. It is not unusual to play a large part in the life of the find a cotton mill provided with working classes. good bath house, a gymnasium, reading room and clubroom, and, sometimes, a moving picture show, or theater at which a small charge is made. Good schools are a part of the regular equipment.

Mills built in recent years have their own tenements for operatives, which are divided up into suites of two, three and four rooms each. Where the mill owns the houses, rents are usually lower, being about 3 or 4 lire (\$0.57 or \$0.77) per room of 20 square meters (186 square fet) per month. The monthly rent of houses for workers is \$0.77 to \$0.96 per room in Busto Arizio; \$0.96 to \$1.25 in Monza; and \$0.86 to \$1.15 in Laguano and Brescia.

Separate houses for operatives, which are the rule in the United States, are not usually found in Italy except in the smaller towns where the supply of tenements is insuffi-In such cases the cotton cient. manufacturers have built two and three room cottages which rent for

about 40 cents per room per month.
It frequently happens that the employees of Italian cotton mills live at some distance from the factory, and in such cases the owners usually build and maintain boarding houses for the women and girls, who make up such a large proportion of the operatives. Many of these the operatives. Many of these houses are under the supervision of nuns, and they are clean and well kept. Separate beds are provided in a large dormitory, and there are usually recreation rooms and sitting rooms in the building. Good substantial meals are served in a common dining room, and the charge for board and lodging is extremely low, ranging from 8 to 10 cents per day. Boarders usually go to their homes, at some distance from the mill, for the week end.

Variety and Cost of Foodstuffs.

The Italian operative does not have a great variety of food, but what he eats is substantial and nour-The diet consists mainly ishing. of soup and vegetables; fresh meat is seldom eaten, except on Sundays and holidays. For breakfast, bread and cheese or salami (salt meat) are usually eaten. Dinner is the most important meal, and consists of minestra (thick soup made with macaroni), rice or other vegetables and grated cheese. Green vegetables and fruit are also served. For supper the operative has minestra or polenta (a kind of corn-meal mush) the latter sometimes mixed with chestnuts. Light wine is universalchestnuts. Light wine is universal—making 12 directors, for the four ly used as a beverage, and a fairly sections, to which are added 6 digood quality can be purchased at rectors selected by the association 8 to 10 cents per quart, being cheap—as a whole. These directors form est in Piedmont and Tuscany, where the governing body of the organizatic is most plentiful,

While the standard of living By means of co-operative stores, among Italian cotton mill operatives which are numerous in Italy, the their food supplies at prices lower

Trade and Labor Organizations.

The relations between the emplayers and employees in the Italian tically all the cotton mill towns in the spirit of trade-unionism has grown in Italy in recent years, there is no strong organization among the operatives. As a rule the existing unions confine their activities to obtaining shorter hours and better working conditions. There are really two organizations among the textile workers—the Federazione Arti Tessili and the Syndicato Itlaiane Tessili. The former is of a socialistic nature, and in 1910 consisted of 80 sections, or unions, with 9,491 members. The syndicato is a religious organization, and its member-ship was 6,037 in 1910. The total number of members in both organizations (15,528) is thus rather small as compared with the total number of cotton mill operatives (207,000) However, the total number of adult male operatives, from whom the membership is drawn, is only slightly more than 50,000, and in the strikes of five and six years ago the unanimity of action and the allegiance of the members secured many concessions from the manufacturers and inspired more confidence in the organization.

The welfare work of the mill owners-their interest in the operatives and provisions for the latter's comfort, amusement and pleasure-has much in the past few years to bring the employer and employee into closer touch and more friendly relations, and it is becoming easier each year to amicably adjust any disputes or differences without resort to strikes.

The manufacturers have formed any regular organization specifically to deal with the tradeunions, such combinations among them have always been temporary and due to the necessities of the occasion. The only manufacturers' organization is the Associazione Cotoniera Italian, which has already been mentioned, and which occupies an important place in the industry. The headquarters of the association is in Milan, where manufacturers meet and discuss their interests, and the problems confronting them. The association is really made up of four sections. devoted, respectively to spinning weaving, finishing, and raw cotton and the members pay in proportion to the number of their operatives Each section has a directorate of 3

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Sulfide, Caustic Soda.

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Trend of Industry in Recent Years.

cotton manufacturer that there was a loss of 3 cents on every pound of cetton goods sold in Italy last year indicates that the industry here has shared in the world-wide depression also felt so keenly by the manufacturers in the United States There has been a cessation in the building of mills, except in the south, where the inducements and center of the couragement offered by the Government of the couragement of the courage a loss of 3 cents on every pound of cotton goods sold in Italy last year encouragement offered by the Government, as already mentioned, and the desire of Southern Italy to become industrially independent, have slightly stimulated the building of

factories.

While the export trade has grown in recent years, the domestic market is oversupplied, and the stock of yarn and cloth at the end of 1909 was greater than ever before. During 1910 the stocks were decreased owing to the policy of curtailment which was practiced, but practically at the mills are now (October 1911), running full time, and there is no marked increase in the demand for cotton goods.

Italian merchants purchase a large supply of goods at one time and during 1907, 1908 and 1909 they laid in heavy stocks of goods, which they were unable to sell. Poor crops caused a lighter demand for goods and this aggravated the troubles of the mill owners. The crisis became so acute in 1909 that the manufacturers reached an agreement to curtail production 25 per cent, and another plan of short-time running was adopted in December 1910: A number of the mills suf-fered considerable losses, and the prices of shares declined. Some of the mills failed, while others were forced to liquidate or sell out

Causes of Depression—Export Trade

Policy.

One reason given for the unsat-isfactory condition of the industry is that the banks have ceased to offer the liberal credit terms formerly allowed. It was stated that because of the great losses sustained by many manufacturers in 1910 through the bills of lading incident in the United States the banks have drawn a tighter rein on their loans to cotton mills. As Italy is preemi-nently a country of long credits, it is difficult to carry on business sucwithout liberal credit When the banks refused loans to the spinners the spinners were fore-ed to curtail their credit to the weaving mills or shut down their plants, and the weavers in were not able to offer the old-time terms to the dealers. The result was general disturbance in the industry and trade, some manufacturers seem to thing that the falsifying of bills of lading in the United States has worked great harm on the business, aside from the money loss involved, and that the effects will ple? be felt for years.

rend of Industry in Recent Years

The fact remains, however, that
The statement of a prominent Italian mills are built and operation manufacturer that there was ated on strictly modern lines, embodying all improvements has been inaugurated, and every effort is being made to secure an in-creasing share of the world's cotton goods trade particularly in South America, the Levant, and ton quite recently in China. These methods and policies have brought the industry in Italy to the position which it holds to-day, and the exports of cotton goods for the first six months of 1911 were greater than for any previous corresponding period, amounting in value to nearly \$20,000,000.

Prominent Mills.

Statistics of the number of spindles or looms in individual mills are not obtainable, as already mentioned, the mill owners being reticient about giving out figures. There are several directories of the Italian cotton industry, but they give only the names and locations of the factories and a general idea of their products.

Tessuti Stampati

The Societa Italiana Ernesto de Angelli per Industria' dei Tessuti Stampati, which operates mills in Milan, Legnano, Crusinallo, Ponte Nossa and Aglie Saronno, the most important firm in the industry has 1000,000 spindles, 4,300 looms, and printing machines, and employs 7,000 operatives. Originally this firm was engaged in the printing business alone, buying most of its cloth from England. The tariff law 1887 so successfully stopped the importation of cotton goods that it was necessary to purchase the cloth in Italy. The quality of the home product proving unsatisfactory, the company erected its own weaving mills, and later, in order to secure a better grade of yarn, took up spinning. The company engraves its own copper rollers for printing, and many of them require highly skilled engravers. printing is also carried on, especially in the printing of handkerchiefs and head covers, a large quantity of which are produced by its mills One of the specialties of this firm is printed flannelets and barchent.

Looks Like Prosperity.

According to government statis-tics, just issued luxuries imported into the United States during the fiscal year, ending with next month will exceed \$200,000,000 in value. How is this for a prosperous peo-

Under this term "luxuries," Another matter of much concern included such articles as diamonds, to the Italian manufacturers is art works, laces and embroideries, the war with Turkey. Exports of champagne and other wines, tobaccotton goods to European and Asiatic co and manufactures thereof, ostotal exports of cotton manufactu- jewelry, manufactured of gold and res and the loss of this market silver, and numerous others of this would be severely felt. Turkey in 1910 amounted to \$8,500,- trich feathers, artificial flowers,

OUR SPINNING RINGS SINGLE OR DOUBLE FLANGE START EASIEST, RUN SMOOTHEST WEAR LONGEST PAWTUCKET SPINNING RING CO.

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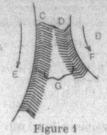
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Principles of Carding

(Continued from Last Week)

As in the case of spinning and weaving mill, the apportioning of costs as between the different pro-cesses of the finishing mills was done by the agents of the board at the offices of the mills and the signature of the mill officers obtained after a careful examination of the extended costs had been made. Before distribution, however, the figures in all instances were checked operation. by the agents with the accounting records of the company to make sure that they represented actual rather than estimated costs.



In ascertaining the quantities and amounts paid for the different materials used only such materials as were consumed in the finishing processes were considered and not the quantities purchased during the these rollers and the cylinder filletperiod covered.

In a few instances it was necessome of the companies had already made this distribution and in such cases the amounts paid in the sever-

materials it was necessary to first ily removed afterwards.

charge only those materials which yarn. The flat card is specially were used in bleaching the particu- suitable for avoiding this fault, and

ber of yards mercerized was ascertained and this amount divided into the total cost for mercerizing to between the cylinder and the flats,

The cost of dyestuffs was also ascertained upon a yardage basis, as separated into single fibres, in which in the case of mercerizing materials.

The cost of printing materials per yard was more difficult to as- plain ,we may mention that the fillcertain, due to the fact that some cloths are printed in one color while others have as many as 8 or 10 dif-Since printing is ferent colors. sometimes done in a number of colors at one operation, it was necessary to divide the production of the goods printed into classes according to the number of colors, as it is evident that there is a greater cost printing cloth in seven or eight different colors than there would be in printing one or two colors.

We have tried a number of things ing forces the fibres absolutely into the cylinder clothing, and the sary to analyze the pay roll to ends that stick out are mostly those ascertain the wages paid in various of the comparatively long fibres. occupations in the mills, though When the cylinder comes round to the flats, then they will take these ends of the longer fibres first and card them well, and the short fibres al occupations were checked with will also be carded, because they the total labor cost. cannot keep sinking into the cylin-The works expense and fixed der clothing so for that they are abweave mills, which has already been when it is considered in which way explained. The cost of singing mathese short fibres are treated to the standard treated treated to the standard treated charges were arrived at in the same solutely out of the reach of the flat basis after ascertaining the of the short fibres and impurities go number of yards subjected to this immediately into the flat filleting, process. In arriving at the proper out of the way of the carding pro-charge per yard for bleaching cess, from whence they can be eas-In the case der. ascertain the number of pounds of of the "mixed card" all the impuritangled by the flats taking hold of 3. After the cylinder filleting has each kind of cloth bleached. The ties are first worked into the cylin- part of the short as well as of the accumulated a certain amount of bleaching materials were computed der-clothing by the rollers, and they upon a poundage basis and this cannot be easily removed from this

lar cloth. This will explain, in part here we have therefore the explana-the difference in bleaching costs. tion why the flat card gives a much Mercerizing was ascertained upon cleaner yarn than any other type, yardage basis; that is, the num- whether "roller-and-clearer" cards or yards mercerized was ascer- or "mixed cards."

During the carding of the fibres ascertain the cost per yard for this the fibres are stretched out and disoperation. each other. The fibre tufts are thus process the "filling" of the various carding parts prevents serviceable fibre going into the waste. To exing is a kind of cushion, on which the fresh or succeeding layers of fibre are laid. The longer fibres project outwards in many places. perhaps at the ends, or at the ends and in the middle, or similarly, due to the peculiar structure of the cotton fibre, and due to its natural con- are stationary. volutions. All these are of course points which can be held or hold of by the opposite carding fibres freshly fed cannot penetrate parts. This shows clearly the importance of the "filling" for good carding. Of course, if there is too much filling, then the cushioning effect cannot take place, and the fibres are laid on a comparatively stiff surface, with the result that they cannot be held or retained by the teeth wire. The fibres cannot therefore be drawn between the points of the card clothing, which is a very necessary feature of card-

singly to the cylinder by the lickerin, but rather in the shape of small tufts containing a greater or less number of fibres of all lengths mixed with a certain amount of impurities. These tufts, no doubt, undergo a comparatively severe action between the first flats and the cylin-The fibre tuft will be disenfibres, and the cylinder will long hold the tuft chiefly by the lenger amount was divided by the number clothing by the flats. This means fibres, especially if clean flats are of yards per pound, thus convert— also that there is a great likelihood presented at the first point of coning the cost to a yardage basis of the leaf, etc., being broken so tact, and when the cylinder clothing In arriving at the cost for bleaching much that it is ground to very small already contains some filling. If the materials, properly chargeable to bits, which are the most objection— shorter material sinks at once into

the various cloths, care was taken able feature in the appearance of the flat clothing, as explained above charge only those materials which yarn. The flat card is specially and if this clothing requires also and if this clothing requires also most of the leaf, etcu this undehere we have therefore the explana- sirable matter will be out of reach tion why the flat card gives a much of the cylinder clothing, and go to make up the filling of the flats.

This preliminary explanation allows us also to develop the theory of carding. There are three cases of carding. There are three cases possible in the flat card, which may be described as follows:-

1. The cylinder has just been stripped of its "filling." In that case a good propertion of fairly long fibres sinks into the cylinder fillet-ing along with short fibres and foreign matter, and many of these long fibres will even go into the cylinder strios later on, although in comparatively insignificant quantities as compared with the flat waste. The actual result is much influenced by the system of flats-whether they move in or against the direction of the main cylinder, or whether they

As the cylinder clothing gradlaid ually accumulates some "filling," the so far to the bottom of the wires. and it follows that only the short fibres are retained in the ground of the cylinder filleting, as the others stick out far enough to be taken forward again by the cylinder. At the same time, some of the motes leaf, etc., are pressed into the filleting by the action of the flats; this quantity of impurities being insignificant, however, because the heel of the flats prevents any such tendence to the flats prevents and the flats prevents any such tendence to the flats prevents and the flats pre We may now consider what the motes which are actually pressed "filling" really is. As we have seen into the cylinder filleting will really to the fibres are not presented main in it, because they do not stick out, and at any rate the opposite flat filleting, having relatively the same action, cannot clear them out so that by this fact their being Conseground up is prevented. quently, there is only a remote possibility of the yarn being spoiled by broken-up stems and leaves at this

"filling" of short leaves, etc., its retentative capacity decreases so much that it cannot any more represented at the first point of contain the fibres sufficiently well to tact, and when the cylinder clothing comb them out against the flats—already contains some filling. If the i.e., to "card" them. The absence of (Continued on Page 18.)

H. BIGELO

AGENTS FOR

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DISCUSSIONS BY PRACTICAL MEN

Fast Dyeing With Direct Dyes.

hoth washing and light.

In order to meet the demand low grade stock speed up the mans many mills are using expensive because they become choked by fill-dyes but I have recently heard of a jug up too fast which is helped by the beautiful and the stock speed up the mans many mills are using expensive because they become choked by fill-dyes but I have recently heard of a jug up too fast which is helped by the stock speed up the mans many mills are using expensive because they become choked by fill-dyes but I have been used to be a jug up too fast which is helped by the stock speed up the mans many mills are using expensive because they become choked by fill-dyes but I have recently heard of a jug up too fast which is helped by the many many mills are using expensive because they become choked by fill-dyes but I have recently heard of a jug up too fast which is helped by the many mills are using expensive because they become choked by fill-dyes but I have recently heard of a jug up too fast which is helped by the many mills are using expensive because they become choked by fill-dyes but I have recently heard of a jug up too fast which is helped by the many mills are using the many mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast which is helped by the mills are used to be a jug up too fast whic method which is being used by several Northern mills. They are dyeing with ordinary direct dyes but using a very heavy per cent.

After the dyeing the cotton or bend but none have been practical.

Are is washed away with hot soda

R. D. L. yarn is washed away with hot soda ash and the color that is left will stand any washing that can be given a laundry.

Fast colors obtained in this way are, of course, not as brilliant as those obtained from special fast dyes but where brightness is not a special feature they have proved satisfactory.

Weaver.

Answer To Young Carder.

Editor:

Last week "Young Carder" asked question as to why the flats travel from the back to the front of a

I do not know any reason except that if the flats were cleaned at the back the dirt from the card strips would fall on the laps.

This is a day of demand for fast. They can also be reversed and I caused by lack of humidity is great-dyes that will be absolutely fast to believe they will do just as good est in the card room.

In order, to meet the demand long standard to the card room.

Humid. low grade stock speed up the flats

devise a method of cleaning the flats at midway points along the

Electricity in Card Room.

I notice the question of "New Mill" relative to electricity on cards and will say that proper humidity is the only solution of his trouble and if he will get his humidifiers to work right the electricity will disappear.

Dry air and electricity go hand in hand. One is seldom present in hand. One is seldom present without the other. The effect of dry air and electricity on the cotton fibre is exactly the reverse of moisture. The fibres seem to repel each other and with electricity it will become a hairy thread, deficient in strength and very undesirable, especially in warp. It may be revolve is not for any carding pur- ity and it is essential to the quality pose but is for the purpose of bring- of the work that every department ing them out in order to clean them. be properly humidified.

can be stopped without any damage much importance because its effects se own your gipun Supred out of are not as easily seen as in the spinthey fill up with fibers and dirt. ning or weaving room but the waste ning or weaving room but the waste

Cotton Yarn Dying.

Many efforts have been made to black for cotton skein yarns, and also on long chain warps. In the case of the former, the yarn is usually boiled in the kier, and it is then bottomed with a developed black. The same is used for warp chains. The dying is done in lots of 100 pounds each, with the developed black bottom; washed, and then hydro-extracted. The yarn is put on the sticks and dyed in aniline dve bath, which for 100-pound lots can be prepared as follows:

Ten pounds bi-chromate of potash; ten pounds of vitriol, and ten pounds aniline salt. The yarn is worked in this bath cold for one and a half hours, the liquor being afterwards run off, and the yarn allowed to hang on the sticks over night. The next morning the yarn is given a cold washing, and is then soured at 130-F., with eight pounds Glauber's salt and six or eight pounds of vitriol. The yarn is given five safely laid down as a rule that the turns in this solution, followed by amount of electricity in the air is three cold washes, and then two The object of having the flats to in inverse proportion to the humid- warm washes at 130-F., after the yarn is extracted and dried in the drying room, where the air should The relative speed of the flats to Some mill men do not consider be changed several times during the the cylinder is so small that they humidity in the card room to be of drying process.

Superintendents and Overseers

Vazoo Varn Mill.

Yazoo, Miss.

G.	Н.	Goodroe Superintendent
		Smith
		ArringtonSpinner
R.	F.	Goodroe Master Mechanic

Elizabeth Mills.

Charlotte, N. C.

T. 1	!}.	Suttle		.Super	intendent
					Carder
W.	L.	Bum	garner.		Spinner
W.	L.	Fenn	ellM	laster	Mechanic

Highland Park Mill No. 3.

Charlotte, N. C.

			-		
Α.	B.	Saunder	8	Superinte	ndent
J.	A	Fowler		W	eaver
W	, O.	Stowe .		SI	inner
C.	E.	Stratford	1Dy	er and Be	eamer
				aster Med	

Hoskins Mill.

Charlotte, N. C.

J. D. Buice	Superintendent
W. B. Bridges	Carder
E. M. Walter	Spinner
L. Padgett	Weaver
J. H. Simpson	
J. R. Beard	Master Mechanie

Highland Park Mill No. 1

Charlotte, N. C.

T	177	Andarson Summint at a
Ada	Lie	Anderson Superintendent
J.	B.	KeeterCarder
C.	F.	MauneySpinner
S.	F.	GayWeaver
B.	D.	Miller Cloth Room
C.	W.	Parrott Master Mechanic

Chadwick-Hoskins Mill No. 3.

Charlotte, N. C.

f D David	9
J. D. DOYG	Superintendent
R. H. Layton	
C. L. Upchurch	Spinner
J. J. Barrett	Weaver
J. P. McSwain	Cloth Room
M. E. Dorsey	Master Mechanic

Chadwick Will.

Charlotte, N. C.

J. D. Buice	Superintendent
J. L. Thompson	Carder
B. T. Bumgardner	Spinner
L. D. Green	Weaver
H. C. Redding	Cloth Room
C. W. Russell	. Master Mechanic



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THURSDAY, MAY 23

Tariff Board Statistics.

On pages 3 and 4 of this issue we are publishing a portion of the data destined to go out of existence on ocimpiled by the Tariff Board rela- June 30th, due to the refusal of tie to the cost of manufacturing Congress to renew its appropriation, cotton yarns. These figures were has published reports on three Tataken from some of the best mills riff schedules as follows: in this country and not only show ScheduleM .- Pulp and Paper. the costs but also give the organizations of those mills.

We have just learned that the enport is exhausted and we therefore ence.

the costs of plain goods both in this country and in England.

If there are any questions that can be raised by our readers relatie to the correctness of the figures same discussed through our columns. The Tariff Board claim that their statistics and conclusions are accurate and unless they are shown they

The Tariff Board Report.

The Tariff Board, which seems

Schedule K .- Wool, and Manufactures of.

Schedule I.—Cotton Manufactures. adivse our readers to preserve these most carefully prepared report yet tables as they are published for they issued. Taken altogether it is the tire issue of the Tariff Board Re- greatest compilation of textile costs revision.

From England there was obtained the American mill. book figures in complete detail for much bearing on the tariff revision. three-quarters of a million spindles, can weavers run 8 plain looms or by other entertaining features.

and in addition considerable data on 20 to 28 automatic looms. Less than weaving costs.

deal of inside information that is of American looms are automatic. Due value to the manufacturer, irrespec- to the larger number of looms per tive of the tariff side of it, and every weaver, even though operated slower mill man should write his represen- than the English, the American idly exhausted.

paragraphs. Volume 2 contains the kets of the world. real report with the original cost Due to the higher expenses of

to be based largely on 100 cloths of States than in England even where tative of the present cotton cloth adds to the mill price 10 to 15 per Germany and Canada, etc.

Some salient findings of the Board are as follows:

The first cost of a ring spinning mill in the U.S. is \$10.85 a spindle, in England \$7.92 a spindle. The first cost of a weave shed in the U. S. is \$243.70 per loom, in England \$176.87, using plain looms. The first cost of a combined spinning and weaving mill in the United States is \$17.45 a spindle, in England \$12.72. These figures show a much smaller difference in cost than was generally supposed.

In the case of ordinary grey The cotton report is the third and yarns the English conversion costthat is, the cost of turning cotton into yarn (not considering the cotton and waste)-is 70 per cent of

English weavers never run over 4 game" in the speaking line.

one per cent of English looms are The cotton report contains a great automatics while one-third of all tative in Congress for a copy. The weaver makes more per week but edition is only 5,000 and is being dap- costs his mill less per yard than the English so that on most plain The report is printed in two vol- cloths to be made in bulk the Amerumes of a total of 841 pages. Vol- ican mill turns out the cloth fully ume 1 contains the glossary with as cheaply as the English and are statistics and discussions of tariff in position to compete in the mar-

distribution, cloth costs the con-The conclusions of the Board seem sumer much more in the United which samples were secured from the American manufacturer gets no the leading jobbers of New York, more or even less than the English Chicago and St. Louis as represen- manufacturer. The English jobber distribution in this country. Books cent to cover his expenses and profof these cloth samples were present- its and the retailer adds to his pured to Congress with the report and chase price 25 to 33 per cent. The these have been photographed and American jobber figures on about 25 included in Volume 2. Tables show per cent and the retailer 50 per the grey and the finished construc- cent respectively for expenses and tion of these 100 cloths, the mill profits above their purchase prices. cost in the grey, the finishing cost, Cotton cloth is retailed in the Unithe mill price, the jobbing price, the ted States at 5, 6, 8 1-3, 10, 12 1-2, retail price also the corresponding 15, 19, 25, 29, 35 and 50 cents a yard prices in England; the duties on and very rarely at any intermediate such cloths in the United States, prices. The result of this system of fixed steps thus arbitrarily fixed is that consumers frequently pay much more for goods than is justified by the price obtained by the mill. As a rule the American consumer pays something like 100 per cent above the American mill price while the English consumer pays only about 66 2-3 per cent above the English mill price.

> Portions of the report that are of the most interest to the trade will be printed in this journal and this week we are publishing a part of the report which refers to yarn

Georgia Industrial Association.

The twelfth annual meeting of will be valuable for future refer- that has ever been presented to the the American. The purchase price the Georgia Industrial Association public. The Board obtained book of the raw material is about the will be held at Warm Springs on The table published in this issue figures in complete detail from 67 same but owing to conditioning the June 11th and 12th. The memberwill be followed by others giving weaving mill (most of which in- yarn after spinning in England the ship of the association comprises the cost of yarn manufacturing in bluded spinning also), 7 finishing English cost of cotton in the yarn the majority of cotton mills of Geor-England and later by those giving mills devoted to the bleaching, print- will be less than the American. In gia. A committee especially chosen ing, and dyeing of cotton cloth, as the case of the two lowest cost for the purpose is endeavoring to well as 4 yarn and 3 thread mills on mills, stafting with the same pur- arrange a program that will be inwhich to base its finding and unless chased price, the cost of the cotton teresting and instructive, and a good its work can be proved inaccurate yarn was 108.849 per cent of the attendance of the members and which is doubtful, the data will purchase price in the case of the their friends is expected. Among given, we will be very glad to have have much effect upon future tariff English mill and 111.235 per cent of other things, some good speeches the purchase price in the case of may be expected as the committee on arrangements is out after "big will have eight spinning mills embracing over looms on plain cloths while Ameri- round of business will be enlivened

PERSONAL NEWS

- J. D. Whitmire has resigned as overseer of weaving at Seneca, S. C.
- W. P. Hurt, of Concord, N. C., is now traveling for a jewelry firm.
- Charlie Cox, from Indianapolis, Ind., is second hand in spinning at the Lincoln Mills, Evansville, Ind.
- B. G. Hall has resigned his posi-tion with the Fort Valley (Ga.) Cotton Mills.
- bia (S. C.) Duck Mills.
- W. C. Cheek is now overseer of from section hand in spinning at the weaving at the Eno Mills, Hillsboro, Poe Mills, Greenville, S. C.
- J. E. Carter has resigned as over-Hillsboro, N. C.
- intendent of the Warren Mfg. Co., Warrenville, S. C.
- John W. Trigg has resigned as overseer of weaving at the Erwin Mills, Duke, N. C.
- W. R. Brown has returned to his former position as master mechanic at the Clinton (S. C.) Cotton Mills.
- W. E. Baggot, of Huntsville, Aal.,
- M. C. Langley has re-accepted his Hill, N. C.
- weaving at the Alice Mills, Easley, S. C.

- F. Roberts has resigned as overseer of twisting and spooling at the Cleghorn Mills, Rutherfordton, N. C.
- L. Smith has resigned as sec-H. E. Dill is now fixing looms at dale Mills, Birmingham, Ala.
 - J. M. Catheart, secretary of the Anderson (S. C.) Cotton Mills, is a candidate for alderman of his town.
- H. L. Austin, from Greenville, S. position as master mechanic at the Green (S. C.) Mfg. Co.

 John M. Wilson has resigned his co. the Clinton (S. C.) Cotton Mills.
 - J. W. Willis has resigned his posi-tion at the Bamberg (S. C.) Cotton
- Will Dampier has moved from is now fixing looms at the Poe Mills, Georgia and returned to the Colum-Greenville, S. C.

Marcus Deason has accepted posi-

T. J. Clark has been promoted to head loom fixer at the Franklin fixer at the Dan River Mills, Danwille, Va., and is now fixing looms at the Alta Vista (Va.) Cotton Mills.

J. L. Burrell, of Greenwood, S. C. has accepted position as overseer of cloth room at the Abbeville (S. C.) Cotton Mills.

Joe Crain has been promoted from section hand to second hand in spinning at the Elizabeth City (N. C.) Cotton Mills,

T. N. Craig has resigned his posi- Cotton Mills. is now second overseer of carding tion at the Trion (Ga.) Mfg. Co., at the Lincoln Mills, Evansville, and accepted position at the Massachusetts Mills, Lindale, 'Ga.

Frank Hinson is now filling pos-M. C. Langley has re-accepted his old position as second hand in card- ition as second hand in spinning at bury, N. C. ing at the Springfield Mill. Laurel the Holston Cotton Mills, Lenoir, City, Tenn.

> mechanic at the South Texas Cotton Mills, Brenham, Texas.

- SPINNING CARDS DRAWING FRAMES. COTTON MILL MACHINERY MASON MACHINE WORKS TAUNTON, MASS. BDWIN HOWARD, Southern Agent Charlotte. N. C. COMBERS. MULES LOOMS. LAP MACHINES
- A. L. Quantz has been promoted front overseer of weaving to superintendent of the Arcade Mills, Rock Hill, S. C.
- E. F. Doster, of Green River, N. C., has accepted position as night overseer of carding and spinning at the Brevard (N. C.) Cotton Mills.
- D. B. Murray, of Duke, N. C., has accepted position as overseer of spinning and winding at the Ivanhoe Mills, Smithfield, N. C.
- -. Shackleford has resigned as W. F. Petit has been promoted master mechanic and chief engineer the Simpsonille (S. C.) Cotton Mills.
- M. Corbin, of the Southern Power J. E. Carter has resigned as over-eer of weaving at the Eno Mills, winding at the Marble City Mills, gineer at the Senera (S. C.) Cotton gineer at the Seneca (S. C.) Cotton Mills.

David Harriman, Jr., has resigned as overseer of carding at the Clinton (S. C.) Cotton Mills to accept a similar position at Tallassee, Ala.

- J. E. Shaw, from Rockingham, is now overseer of carding at the Cliton (S. C.) Cotton Mills Nos. 1 and
- D. B. Mehaffey has resigned his position with the Travora Mills, Yorkville, S. C., to become overseer of spinning at the Lancaster (S. C.)
- W. P. Hawkins has resigned as second hand in spinning at the Dixie Rock Hill, S. C., to become super-Mill (Mooresville, N. C., and accept-intendent of the Warren Mfg. Co., ed position at the Vance Mill, Salis-Warrenville, S. C.
- W. E. Ford has resigned as over-J. F. Ingle, of Rhodhiss, N. C., Marble City Mills, Sylacauga, Ala., J. C. Hill has been promoted from J. F. Ingle, of Rhodhiss, N. C., Marble City Mills, Sylacauga, Ala., head loom fixer to second hand in has accepted the position of master and accepted position as second hand in spinning at the Avondale Mills, Birmingham, Ala.

Will Wilson, from the Victory Mfg. Co., Fayetteville, N. C., is now machinist at the Chadwick-Hoskins Mill No. 3, Charlotte, N. C.

Harry Haulters has been promoted from section hand to second hand spinning at the Floyd Cotton Mills, Rome, Ga.

- L. V. Lyda has resigned as loom fixer at the Franklin Mills, Greers, S. C., and accepted similar position with the Greer Mfg. Co., of the same place
- G. W. Brigman, of Raeford, N. C., has accepted the position of overseer of spinning and assistant superintendent of the Maple Mills, Dillon, S. C.
- John L. Davidson has resigned as superintendent of the Stonewall (Miss.) Cotton Mills to become general superintendent of the Georgia Mfg. Co., Griffin, Ga.

Jim Gorman, formerly loom fixer at the Verlina Mills, Jacksonville, Ala, has accepted position as over-seer of twisting at the Ide Mills, of the same place.

- W. E. Stafford has resigned as superintendent of the Arcade Mills, Rock Hill, S. C., to become super-intendent of the Elmira Mills, Burlington, N. C.
- A. T. Brown has resigned as superintendent of the Aragon Mills,

John Tillett, of Charlotte, N. C., has resigned his position at the Union Bagging Co., Norfolk, Va., and accepts position as shipping clerk at the Chadwick-Hoskins Co., Char-

OVERFLOW PERSONALS PAGE 16



CAPACITY 1000 POUNDS LINT PER HOUR

Stock?) ye Do You

Why not clean, open and fill the fibres with air before you dye the cotton. It saves you money and insures much better results

BECAUSE

The C. O. B. Machine gives you these results in one operation.

MANUFACTURED BY

EMPIRE DUPLEX GIN COMPANY, 68 Willam St., New York

Southern Representative

ATLANTA EQUIPMENT CO., Atlanta, Ga.

MILL NEWS ITEMS OF INTEREST

Lancaster, S. C .- One of the mill tenements was destroyed by fire on Monday. The loss was small.

for five knitters and one looper.

Spray, N. C .- The Rhode Island Mills have placed an order for Tur-bo Humidiflers with the G. M. Parks Co., of Fitchburg, Mass.

McColl, S. C .- The Marlboro Cotton Mills are adding some additional spinning room machinery in mill

Mayesworth, N. C. - The Mayes Mfg. Co. are erecting a stand pipe which they recently purchased from the town of Gaffney, S. C.

Lumberton, N. C. - Dividends of 5 per cent and 2 per cent, respectivly, have been declared by directors of the Lumberton and Dresden Cotton Mills.

Anderson, S. C .- The Gluck Mills have placed an order with the Empire Duplex Gin Co. for a C. O. B. machine to improve the method of opening their cotton.

LaFayette, Ga.—It is reported here that the LaFayette Cotton Mills will add extensively to their present equipment. Details of the enlargement have not yet been announced.

Rock Hill, S. C. - The Harris Cotton Mills have awarded contract to Leve Owens, of this place, for the erection of eight new The cost of the houses will approximate \$5,500.

Rutherfordton, N. C .- The Cleghorn Mills Company is adding a second story to the new addition recently built, which will make room new machinery. for additional machinery and equip-

yet been announced.

are installing a number of new looms. They are also making preparation for installing the electric drive for operating the plant. The output of this concern is duck, and about 200 operatives are employed.

Concord, N. C. - The Louise Manerect a brick building, 75x160 feet, costing \$8,000. There will be installed in this building 20,000 spindles, driven by electric and water power. The machinery is to cost \$15,000

Rock Hill, S. C .- Highland Park Mills are building a tank to hold 50,000 gallons of water, as an addi-Baltimore, Md.—The Mt. Vernon connecting with the sprinkler sys-knitting Mill has placed contracts tem. The iron work of the tower is now going up.

> Henderson, N. C .-- It is stated here that D. Y. Cooper will erect a twostory building and install 10,000 to 15,000 spindles and accompanying machinery. Details of construction and general plans of the new enterprise have not been made public.

> cottages at the Greenwood Cotton Mills was destroyed by fire Wednesday morning. The fire department responded to the call but it was impossible to extinguish the flames. Several nearby buildings was say-

> Cheraw, S. C .- It is understood that the project for a cotton mili at this place has taken definite shape and it is reported that most of the funds have been subscribed.

Greenville, S. C. - A meeting of the stockholders of the Monagham Mills has been called for June 13th, for the purpose of considering a resolution adopted by the Board of Directors May 9th to increase the capital stock of this corporation from \$1,050,000 to not exceeding 44,000,000.

Shawmut, Ala.-The West Point Manufacturing Company will add 5,000 spindles and accompanying machinery to their present equipequipment of 25,000 ring spindles and 268 looms, etc., on the production of cotton duck. The contracts have already been awarded for this

Abbeville, S. C .- Seth M. Milliken Birmingham, Ala.—It is reported and party were in Abbeille May 17 here that B. B. Comer and associates for a directors' meeting of the Abare planning the construction of a beville Cotton Mill. A dividend are planning the construction of a beville Cotton Mill. A dividend cotton mill, the cost of which will of 3 per cent, amounting to be about \$50,000. Details have not \$9,500 was declared on the common stock payable July 1. Besides paying this 3 per cent dividend, \$125,-Hichester, Md.—The Thistle Mills 000 worth of first preferred stock was ordered called in and paid on July 1, the regular dividend period.

Durham, N. C. — Special. At a regular meeting of the Durham Merchants' Association last President Vaughan stated that the matter of the new addition to the ufacturing Company, recently men- Durham hosiery mill had been tioned as being incorporated, will taken up with J. S. Carr, Jr., the president of the mill, and that Mr. Carr had stated that the plans were being drawn. Just where the new mill will be located has not as yet been given out, although they are and all of the contracts have been thinking of erecting it back of the awarded.

Durham hosiery mill.

Durham, N. C .- The Durham Hosiery Mills have announced their intention to erect the new \$100,000 plant in this city. It was reported tast week that the company was thinking of locating the new mill in Durham, but at that time no decision had been made. It is understood that the construction of plant is to begin at once. Details of the plans and equipment of the proposed mill have not yet been announced, though it is understood that this new enterprise will represent an investment of approximately \$100,000.

Greenwood, S. C. — One of the Cotton mills have placed an order of tages at the Greenwood Cotton with the Howard and Bullough fills was destroyed by fire Wednes-Company for 16,000 spindles, new Atlanta, Ga. -. spinning frames, eighteen speeders, intermediates and slubbers, eight cards, etc. It is probable that an order for two hundred or more looms will be placed at an early date. This company is making general improvements, and their entire plant overhauled. An additional number of operatives will be required when the new machinery is started up.

> Drayton, S. C. — The stockholders of the Drayton Mills met last week at the office of the company. The affairs of the company were found to be in satisfactory dition, though no dividend was declared.

> The retiring board of directors was re-elected in its entirety, as follows: S. M. Milliken, V. M. Montgomery, J. B. Cleveland, J. F. Floyd, F. J. Hale, (of Newton Upper Falls, Mass.) W. J. Britton and Arch B.

Arch B. Calvert was re-elected president and treasurer, and Gabriel Rouquie as secretary.

Greenville, S. C .- At a meeting of the board of directors of the Carolina Mills held last Tuesday a reso-Ituion was adopted calling a meeting ed at once. The payroll will apof the stockholders on June 18th, proximate \$30,000 to \$60,000 a month, for the purpose of considering a resolution adopted by the directors proiding for the increase of the capital stock from \$150,000 common and \$50,000 perferred to \$300,000 common and \$300,0 preferred.

The meeting will be held at o'clock, Tuesday, June 18th, at the offices of the company. The proposed increase in the capital stock the concerns is to divided into shares of the par value of \$100 each. The prefered stock is to be 7 per cent cumulative preferred, running for ten years and to be retired at the expiration of that time at \$110 per share.

It is reported that the Carolina Mills will be doubled in size.

Greenville, S. C.-W. J. McDowell, manager of construction for the stock. Prior to yesterday's meeting Clifton Mfg. Co, has a squad of car- three successive dividends on the penters at Converse re-roofing some common stock had been passed. of the dwellings.

Chapel Hill, N. C. The Durham Hosiery Mills, in addition to the recently mentioned enlargement to their plant will also erect several tenement houses for the many empleyes the enlargement at the plant will make necessary. Besides these a large flat will be erected for those who wish to board. The local mill now measures 240 feet and with the new addition will be 370 feet long. The mill now employs more than 150 hands and will increase this number to over 200 when the enlargements are completed.

Prattvile, Ala. — The Prattville Cotton Mills have awarded contract to Algeron Blair, of Montgomery, Ala., to construct an extension to their mill. The new addition will be 58 by 48 feet, brick construction with concrete floor and will contain cloth room and office. The company has also awarded contract to Mr. Blair to erect a standard cotton warehouse, having three compartments, each compartment to be 50 by 100 feet with contract floors. The total cost of the improvements will be about \$15,000. Construction has already begun.

Chattanooga, Tenn.-Philadelphia capitlists, owners of a number of cotton mills in the South and also in the Fall River district, have closa deal whereby they will erect a \$100,000 plan in Chattanooga. The plant to be erected here will be the only one of its kind in the South. although there are more than a hundred in the factory districts of New England.

The Chattanooga plant will convert cotton yarns, such as unfinished domestics, etc., into mercerized cloths and attractive designs. reasons of their own, the capitalists do not wish their names published. A site for the plant has been bought in the Ridgedale suburb. The promoters say work is to be commenc-

Pacolet, S. C .- The annual meeting of the stockholders of the Pacolet Manufacturing Company was held in the office of the president, Victor M. Montgomery. The direc-tors were re-elected as follows: S M. Milliken, R. K. Waring, Frank E. Taylor, R. K. Carson, A. L. White, W. S. Montgomery and V. M. Montgomery . V. M. Montgomery was re-elected president and trea-surer, and B. W. Montgomery, assistant treasurer.

Good reports were presented to the directors, and they decided to pay to the common stockholders, on June 30, a dividend of three per cent, in addition to the regular semi-annual dividends of three and one-half per cent. on the preferred

Owing to the low prices of cotton

last autumn the Pacolet mills; which manufacture coarse goods and consume large quantities of cotton were able to do a fine business and for a while, on account of the low price, enjoyed a good China trade

Lockhart, S. C. — The stock-holders of Lockhart mills held a special meeting in the office of J. B. Cleveland to consider a proposition for water power development, They passed a resolution giving the directors authority to act on the proposition. The directors then held a meeting and discussed the project but took no definite action in regard thereto.

Engineers who have investigated the matter throughly reported to the Lockhart mills directors there is \$100,000 worth of waterpower going to waste on or near the company's property every year It is now being be proposed to con-serve this power by building a 16foot dam on the upper shoal of the company's property along the Broad river in Union county. The Southern Power company

has made a tentative offer to purchase from Lockhart mills all the surplus power which the Lockhart people do not need for the operation

of their plants. In order to take advantage of a law passed by the legislature the acquisition by power companies through condemnation, of land up-on which water overflows, it is expected that the directors of Lockhart mills will form a power company to make the development contemplated.

Mill and Machinery Exhibits Manufacturers Exposition.

One of the features of the Manufacturers Exposition, held in Charlotte, N. C., during this week, was the exhibits by the cotton mills and the textile machinery manufacturers of Charlotte. These exhibits were attractively arranged and presented many interesting and instructive points to the visitors. A number of these are detailed below:

American Machine Manufacturing Co.

This company had on exhibit the McDonald-Miller system of mixing, opening and cleaning cotton. They also showed a line of size kettles, banding machines, warp beaming machines and the Post Indicator for fire protection.

Loom Reeds and Harness Co.

The products of this concern are reeds and beaming combs and a most complete line of these were attractively displayed, showing reeds ranging from the very coarse to those for fine weaving.

Charlotte Cordage Co.

A braider in operation, making braided sash cord was on exhibit



One of the objections to humidifiers is the overhead piping which-especially in saw-tooth roofs-casts disagreeable shadows.

THE TURBO HUMIDIFIER

has as a possible ramification its ring construction; the rings are around the posts and the piping all underneath, out of the way. No shadows with the Turbo Ring Construction. This may seem a minor detail, but it is one of the Turbo points that leads toward satisfied customers.

Get Turbofied-and satisfied.

THE G. M. PARKS CO. FITCHBURG, MASS.

uthern Office, No. 1 Trust Bldg., Charlotte, N. C. B S. COTTRELL, Manage



at this booth, showing the cord braided from the yarn. This ex-hibit also showed the various products of the company, including sash cord, clothes line, white and variegated twine, etc., all of which are made from yarn manufactured by the company.

Reddisode Textile Company.

This company had a very attractive display of mattresses, showing them as they are put through the various processes of manufacture.

Chadwick Hoskin s Manufacturing Co.

This company showed a loom in operation, weaving fine sheetings. They also had on exhibition a large number of samples of fine sheeting, the product of the mills of the company

Elizabeth Mills.

These mills had a most tastefully arranged exhibit, showing a large variety of fine carded and combed yarns, ranging in count from 50s to 150s, both single and ply. These yarns were shown in both the white

Highland Park Manufacturing Co. A large display of staple and fancy ginghams, chambrays, etc., was shown by this company.

Charlotte Manufacturing Co.

One of the most interesting exhibits was that of the Charlotte Manufacturing Company, showing the manufacture of card clothing. This concern is the only one in the South which manufactures card clothing. They also showed reeds of their own manufacture.

Southern Spindle and Flyer Co.

Occupying a large space and being well arranged, the exhibit of the Southern Spindle and Flyer Co. was one of the most attractive at the Exposition. They showed com-plete line of steel rolls, pressers, card room spindles, top rolls, lift-ing rods, etc. In operation were shown flyers, pressers and steel rolls.

General Fire Extinguisher Co.

This concern had on exhibit the Grinnell Sprinklers, the auxiliary piping, etc., which is manufactured in Charlotte, was shown with the other products of this company.

Cotton Prices Since 1820.

John Hill, the well known ma-chinery agent of Atlanta, Ga., has issued a very handsome picture which is not only an office ornament but also gives the high and low prices for cotton for every year since 1820. It also gives the size of the crop for each year.

Mr. Hill also sends with the picture a map of the cotton belt showing the spread of the boll weevil.

AMERICAN MOISTENING COMPANY

BOSTON, MASSACHUSETTS

JOHN HILL Southern Representative, Third Nat. Bank Building, ATLANTA' GEORGIA

FRANK B. COMINS, Vice-Pres. & Treas. MOISTENING

WILLIAM FIRTH President THE ONLY PERFECT SYSTEM OF AIR COMINS SECTIONAL HUMIDIFIER

Cotton Goods Report

with a slight improvement during the July last two days of the week, owing to Quotations are as follows: 28 inch, more seasonable weather conditions. 4x60s, 3 7-8 cents 28 inch, 64x60s, Jobbers were inclined to be a little 3 3-4 cents; nominal; 27 inch, 64x more cheerful, and hope that dur- 60s, 3 5-8 cents; 27. inch, 56x56s, ing the last part of this month re- 3 1-8 cents; 27 inch, 56x52s, 3 cents; tailers will get a chance to move 38 1-2 inch, 64x64s, 5 1-8 cents; 39 some of their spring and early sum-inch, 68x72s, 5 3-4 cents. mer merchandise. A moderate Current prices on cotton goods amount of mail orders came through were quoted in New York as folmerchandise. on Saturday, showing that in certain sections of the country the demand across retail counters been slowly improving. In the East however, the volume of business for the week was decidely small. Some of the larger retail buyers have been keeping their eyes open for any special offerings in Jobbing houses, as they have faith in a good summer trade, once it starts up and are prepared to pick up anything that can be used later on for bargain day saies, or special "drives." Reports were current on Saturday to the effect that some offers had been made for stocks of cotton wash dress fabrics in jobbers' hands, and that these offers were now under consideration. With first hands the wee's has been a very quiet one, so far as new business was concerned. Buyers continued to call for goods on old order, including brown and bleached sheetings, drills, denims, and lines of prints, ginghams, etc. still to come forward. Cotton yarns remained very quiet, but firmly held during the week, with buyers slowly beginning to realize that spin-ners do not intend to shade their asking prices to any extent. Under-wear and hosiery showed little signs of activity, as retailers are more anxious to move the goods they already have on their shelves, than they are to place further or-Summer silks have also been in slow request, while the distribution of linens across retail counters, especially in this city, and its imvicinity, has been greatly restricted by the weather.

There was a further falling off in the volume of trading in the Fall River print cloth market last week Buyers generally showed little in-terest in the trade and there was very little inquiry for goods. The market was very quiet throughout the week and the total sales for the week set a new low record for the year. It was the fourth consecutie week that the total sales fell short of the mark of the previous

The dull condition of the market has had its effect on prices, and styles figuring in the trading have shown a reduction of a sixteenth of a cent from the previous week. No strong efforts was madé, however. to obtain further concessions, and on the whole there was a decided lack of interest on the part of the buyers.

The total number of sales is estimated at 60,000 pieces, half of them door of death. Please come at once being spots. Trading was all in and see if you can pull her small lots, with sales ahead for de-through,"—Exchange.

Current prices on cotton goods

lows:	
Prt elths, 28-in, std 3 15-16 -	The same of the sa
28-in, 64x60s 3 3-4 -	
4-yard, 80x80 6 1-2 to	6 3-4
38 1-2 in. std 5	5 1-8
Gray goods, 39-in, 68	
x72 5 1-2 to	5 5-8
Brown drills, std 8	
Sheetings, so, std 7 3-4 to	8

4-yard 6 1-2
Denims, 9-ounce ... 13
Stark, 8-oz. duck ... 12 1-3
Hartford, 11-ounce,
40 inch duck ... 14 1-2
Tickings, 8-ounce to 16 1-2

Tickings, 8-ounce.....13 Stand, fancy prints 5 1-4 Standa, ginghams .. 6 1-4 Fine dress ginghams 7 Kid fin. cambrics. 4 1-4 to 4 1-2

Weekly Visible Supply of American Cotton.

May 18, 1912	3,316,790
Preious week	3,500,730
 Last year	2,045,991

Weekly Cotton Statistics.

New York, May 17.—The following statistics on the movement of cotton for the week ending Friday, May 17, were compiled by the New York cotton exchange

WEEKLY MOVEMENT.

	This yr.	Last yr.
Port receipts Overland to mills	50,754	65,408
and Canada So, mill takings	10,142	12,188
(estimated) Loss of stock at	30,000	25,000
interior	18,190	33,926

Brought into sight TOTAL CROP MOVEMENT. .11,523,593 8,383,055 Port receipts Overland to mills Overland to mills

and Canada 931.042 914.272 mill takings estimated 2,410,000 2,010,000 Stock at interior towns in excess of Sept. 1 131.096

Brought into sight thus far for the season ...14,995,731 11,471,604 Six hundred and fifty bales added

to receipts for the season.

A Georgia man whose wife swallowed poison through mistake sat

ing message to the doctor:
"Dear Doctor: My wife is at the

GRINNELL WILLIS & COMPANY

44-46 Leonard Street, New York

SELLING AGENTS

BROWN AND BLEACHED COTTON GOODS FOR HOME EX-



Independence is our motto, and we have no connection with any other Ring Traveler Company.

U. S. RING TRAVELER CO.

AMOS M. BOWEN, Treas.

PROVIDENCE. R. I.

Southern Audit Co.

(INCORPORATED)

Public Accountants and Auditors

901-903 Realty Building Phone 2103 CHARLOTTE N. C.

C. L. SMITH President

JOHN W. TODD Vice-President and Secretary

The Desirability of the South

as the place to manufacture cotton goods is illustrated in the increase of 67% quoted by census department. We can offer attractive situations for those desiring to enter this field.

J. A. PRIDE

General Industrial Agent, Seaboard Air Line Railway

NORFOLK, VIRGINIA.

The Logical Location for Textile Mills

The three absolutely necessary commodities for operating successfully a textile mill are POWER, RAW MATERIAL and LABOR.

If your mill is located in a Southeastern State on one of the many CHEAP WATER POWERS which abound in that localitywhere cotton is delivered at your factory doors by growers—where intelligent LABOR IS PLENTIFUL and living expenses low, you will realize larger dividends than would be possible with your factory located in any other part of the country.

If you contemplate establishing an industry, we would be pleased to give further and full information regarding location along the Southern Railway System.

M. V. RICHARDS

Land and Industrial Agent Southern Railway Room J WASHINGTON, D. C.

The Yarn Market

Philadelphia, Pa. - The business in the yarn market last week as a

whole was very light.

There were a few sales of 20,-000 to 50,000 pounds, though there was little other trading. Prices of practically all of the coarse numbers were weak, and the new business of 5,000 pounds or more was taken by dealers who are in a position to undersell spinner's from a cent to cent and a half while those who had to submit offers to the spinners got only a small part of the business for quick deliveries. Manufacturers are accepting deliveries, but where dealers are behind they are not being pushed as a general thing.

Knitters are not buying yarns very freely. Their buying, with a few exceptions, is from hand to mouth, and they are getting concessions on what they do buy. Sales of small quantities of 24s Southern frame spun cones were made at 21 1-2 to 22 Southern Frame Spun Yarn on Cones cents, 2s sold at 22 1-2 to 23 1-2 cents. The demand for combed yarn is no better than that for carded. Spinners are pretty well sold up and have advanced their prices to what buyers consider the prohibitive point. Dealers say their sales of fine numbers are limited to quantities ranging from a single case to a few thousand pounds.

Southern Single Skei	ns.
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					1-2	
20s	 		20			40s
						30s
148	 ****		18	-18	1-2	26s
12s	 		18			248
						20s
88	 		4-7			

Southern Two-Pi, Skeins:

8s 17 1-2-18

108	18 1-2-
128	18 1-2-19
148	
168	19 —20
20s	21 1-2-
248	22 1-2-23
26s	23 —23 1-2
30s	25 1-2-26
408	33 —33 1-2
50s	39 —40

Carpet and Upholstery Yarn in

8-3	hard	twist	18	_
8-4	slack		18	1-2-19
9-4	slack		19	-19.1

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Southern Two-Ply Warps:

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50s														40			41		

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50s											38	-				

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Single Combed Peeler Skeins __31

Two-Ply Combed Peeler Skeins:

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A. M. Law & Co. F. C. Abbott & Co.

Spartanburg, S. C. BROKERS

Dealers in Mill Stocks and other Southern Securities

South Carolina and Georgia Mill Stocks. Bid Asked Abbeville Cot Mills, S. C. ... Aiken Mfg. Co. S. C....... Amer. Spin. Co., S. C... Anderson Cot Mill, S. C. p 90

D. E. Converse Co., S. C ... Dallas Mfg. Co., Ala... Darlington Mfg. Co., S. C... Drayton Mills, S. C.... Eagle & Phenix Mills, Ga. 108 90 Easley Cot Mills, S. C. .. 160 100 70 Fairfield Cot Mills, S. S. Gaffney Mfg. Co., S. C... Gainesville Cot Mills, Ga., 60

Glenn-Lowry Mfg. Co., S.

141

105 100

85

105

C., pfd
Gluck Mills, S. C
Granby Cot. Mills, S. C
Granby C Mills, S. C., pfd 135
Granite C Mills, S. C.,
Greenwood C Mills, S. C. 57
Creenwood C Mills, S. C. 91
Grendel Mills, S. C 91
Hamrick Mills, S. C
Hartsville C Hills, S. C
Inman Mills, S. C
Inman Mills, S. C., pfd
Jackson Mills, S. C
King, John P. Mfg. Co., Ga 80
Lancaster Cot Mills, S. C. 130
Lancaster C. M., S. C., pfd 98
Langley Mfg. Co., S. C 65
Laurens Cot Mills, S. C
Limestone Cot Mills, S. C
Lockhart Mills, S. C
Marlboro Mills, S. C 60
Mills Mfg. Co., S. C 90

monardi doc mins, S. C. 110	***
Monaghan Mills, S. C	
Newberry Cot Mills, S. C. 125	135
Ninety-Six Mills, S. C 135	140
Norris Cot Mills, S. C	115
Olympia Mills, S. C. pfd	
Orangeburg Mfg. Co., S. C.,	
pfd	90
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Oconee, S. C., com	. 100
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Pacolet Mfg. Co., S. C	. 90
Pacolet Mfg. Co., pfd	

Charlotte, N. C. BROKERS

Southern Mill Stocks, Bank Stocks, N. C. State Bonds, N. C. Rail-

> road Stock and Other High Grade Securities

North Carolina Mill Stock	ks. mil
	Asked
Arlington	137
Atherton	
Avon	100
Bloomfield	110
Brookside	112
Brown Mfg. Co., com 100	115
Cabarrus 131	
Cannon	***
O1 1 1 1 TT 1 TT	OF
Chadwick-Hoskins, pfd	95
	100
Clara	110
Cliffside	200
Cora	135
Dresden	136
Dilling	
Efird 100	125
Elmira, pfd	100
Erwin Com	120
Erwin, pfd 101	102
Florence	126
Flint 140	
Gaston	90
Gibson	80
Gibson Gray Mfg. Co	121
Highland Park 15	0 200
nighland Park, pld 10	0
Henrietta	170
Imperial 101	106
Kesler 145	
Linden	
Loray, pld	91
LIUWUII	181
Lumberton	251
Mooresville 123	
Modena	
Nokomis, N. C	200
Ozark 92	110
Patterson 120	126
Raleigh	104
Roanoke Mills 140	161
Salisbury 136	***
Statesville Cot. Mills	
Trenton, N. C	
Tuscarora	90
Washington, pfd 95	100
Washington 20	30
Wiscassett 100	115
Woodlawn	100
Woodlawn	100
Parker Mill, guaranteed	. 102
Parker Mill, preferred	. 65
Parker Mill, common	

Woodlawn	100
Parker Mill, guaranteed	102
Parker Mill, preferred	65
Parker Mill, common	
Pelzer Mfg. Co., S. C 138	140
Pickens Cot. Mill, S. C. 94	
Piedmont Mfg. Co., S. C., 144	160
Poe, F. W. Mfg. Co., S.C. 100	115
Richland Cot Mills, S. C. p	
Riverside Mills, S. C	25
Sibley Mfg. Co., Ga 60	64
Spartan Mills, S. C 110	
Toxaway Mills, S. C	72
Tucapau Mills, S. C 260-	
Union-Buffalo Mills, S. C.,	
1st preferred 50	60
Union-Buffalo Mills, S. C.,	
2nd preferred	10
Victor Mfg. Co., S. C	
Ware Shoals Mfg. Co., S.	and the same
C	80
Warren Mfg. Co., S. C 80	
Warren Mfg. Co., S. C., p 100	
Watts Mills, S. C	85
Whitney Mfg. Co., S. C	115
Williamston Wills C C	110

Woodruff Cot Mills, S. C.

Personal Items

W. C. Blackwell has resigned as card grinder with the Cleghorn Mill, Rutherfordton, N. C.

Sam Maley, of Rome, Ga., is now master mechanic at the Floyd Cotton Mills, Rome, Ga.

G. W. Griffin has been promoted to econd hand in carding at Drayton, S. C.

J. V. McCombs, overseer of spin- the man who gets the large ning at the Wylie Mills, Chester, S. ber of votes gets the office. C., paid us a visit this week.

A. H. Rodgers, of Oxford, N. C., now doing overhauling at the Erwin Mills No. 4, Durham, N. C.

Ed Pitts has accepted the position yard foreman at the Elm City Mills, LaGrange, Ga.

M. W. Driver, has resigned as superintendent of the Eureka Cotton Mills, Chester, S. C.

Dover Jones, of Elm City Mills, LaGrange, Ga., is recevering from an accident which happened to him at the mill last week.

Weldon Bridges, overseer of carding at Wiscassett Mills No. 3, Albemarle, N. C., paid us a visit this

J. D. Thompson, of Pineville, N. C., has accepted the position of night overseer of spinning at the Columbia (S. C.) Mills

H F Jones has resigned as superintendent of the Fort Mill (S. C.) Mfg Co. No. 2 to become superintendent of the Aragon Mills, Rock Hill, S. C.

O. C. Wilson of Fountain Inn, S. C., has accepted the position of master mechanic at the Simpsonville (S. C.) Cotton Mills.

Will Greenwood, of - the Dallas Mills, Huntsville, Ala., has accepted the position of second hand in weaving at the Merrimack Mills of the same place.

Wallace Long has resigned his position with the Union Bleaching and Finishing Works, Greenville, S. C., and is now with the Freeze Hosiery Mills, Hendersonville, N. C.

Etters has resigned as overseer of spinning at the Trio Mfg. Co., Forsythe, Ga., to become night superintendent at the Bibb Mill; Rey-

J. C. Nunnelly is overseer of carding at the Cowpens (S. C.) Mfg. Co.

Waddy R. Thomson has resigned as secretary and treasurer of the Fort Mill (S. C.) Mfg. Co. to accept a position at Laurens. S. C.

Southern Textile Association.

The program for the meeting of the Southern Textile Association at Greensboro, N. C., on June 29th, is being rapidly completed and final announcement will be made next

A large number are expected to be attend the Greensboro meeting

a prospective contest over the position of president.

Newberry, S. C.; T. B. Wallace, Greenville, S. C., and T. M. McEn-Wallace, tire, of Gastonia, N. C. None of these the damage last year, 17.2 per cent gentlemen have announced themselves as candidates, but the friends Deficient moisture was the chief of each have been urging them to cause of damage while the insect run and either is well qualified for damage was second. the office.

ciation. All elections are open and 1910 and \$458,546,000 in 1909. the man who gets the largest num-

George Moore, who lives at the the areas planted to cotton last year Vardry Mill, Greenville, S. C., was based on the results of a special inrun over and seriously injured by a vestigation and the census bureau's gas-electric car, bound from Greenville to Anderson. The injured man was taken to a hospital where it was found necessary to amputate both 004,000 acres as estimated by the

Man Painfully Cut.

A white man by the name of Jack Johnson was painfully cut last week in the Poe Mill village when it said another man pulled out a knife and slashed him across his breast. is known of the scrape.

Banquet at Ottaray.

Quite an enjoyable affair of last week was the bauquet given at Ottaray, by Mr. Lewis W. Parker, president of the mill in compliment to the Woman's club. There were present about twenty-five guests hesides the members of the club. Prof. Davis Jefferies, superintendent of the city schools, delivered "Since the Panama Canal will an address on the "Mothers Duty soon be completed every effort pos-York gave an entertaining and in-structive talk on the "Work Being Done by the Women of the United States." Miss Mae Jones of Greenville gave several readings which delighted her hearers.

Crop Damage Less.

Washington, May 15. - The exdue to different causes was less last year than in 1910 or 1909, the to foreign nations who are familiar Department of Agriculture has de-with the goods which we have to termined. During these three years sell in that particular country. It

pondents report on the damage and to form treaty alliances whereby its cause. Climatic conditions caus- our trade would be extended to all Those most prominently mention- ed about 61,3 per cent of the total ed for that office ara: J. M. Davis, damage to the 1911 crop compared Newberry, S. C.; T. B. Wallace, with 65 per cent in 1910. Insects with 65 per cent in 1910. Insects were the cause of 24.4 per cent of in 1910 and 19.5 per cent in 1909.

the office.

The department estimates the farm products of the South.

No slate is made up for the offi- money loss for 1911 at \$315, 456,- "We are told that there are over cers of the Southern Textile Asso- 000 compared with \$414, 383,000 in one billion five hundred million

Cotton Acreage Report.

A man named Moore, thought to be ture of its preliminary estimate of eorge Moore, who lives at the the areas planted. report of the quantity of ginned that season places the 1911 acreage at 36,681,000 instead of 35,-At last reports he was doing department last June. On these revised figures the department base its estimate of the acreage are elected and even now some of planted to cotton this year. The re- the congressmen are voting for a

The yield of cotton per acre in 19-11 is estimated at 207.7 pounds the largest on record since 1867 with The matter has not been reported one exception, 1898, compared with to the sheriff and consequently little 170.7 pounds in 1909. The area picked last year was about 36,045,000 acres, about 1.7 per cent of the 36,045,000 planted area having been abondon-

Before Election.

Carolina by a candidate for the United States Senate:

"Since the Panama Canal will to Her Child." Miss Thomas of New sible should be made to build up York gave an entertaining and in- our Merchant Marine. We are told that American ships carry no greater proportion of our produce now than they did one hundred years ago. The law which does not allow foreign-bought vessels-American registry-should be repealed. All possible means should be provided so that our people can find a nearer Washington, May 15. - The ex- and better market for what they tent of damage to the cotton crop have to sell. Moreover, we would endeavor to have consuls appointed

and additional interest is added by the department has had its corres- should be our pleasure to endeavor markets of the world and especially to Central and South America. are informed that those countries spend, at least, seven dollars in Europe to where they spend one dollar in the United States. With proper shipping and banking facilities no doubt a great market could be created for our cotton goods and

> people in the world; five hundred millions of these are clothed; two hundred millions go unclothed, and the remaining seven hundred and millions go only partially It is estimated that it would fifty millions go only clad. take forty-two million bales of cotton to clothe these people, hence there is not much chance of over-production. We should inform ourselves as to where and how to sell the best advantage.

· The above sounds alright but somehow the candidates seem to forget about these things after they are elected and even now some of port is scheduled for issurance bill which will abolish the positions Tuesday, June 4, at noon.

of Commercial Agents. of Commercial Agents.

Dveing Raw Stock.

The dyeing is generally done in large revolving machines made by different concerns, and making about 12 turns per hour. The amount of stock generally placed in the machine is from 1,00 to 1,200 pounds of raw stock, which is generally broken up on a picker before being placed in the machine. Some The following is an extract from mills have the help to do this by an address to the voters of South hand; but it results in uneven dyeing. The first manipulation, after wetting out the raw stock properly with cold water, consists in turning on the steam at full force; adding 20 pounds of soda ash, and one of chip soap, previously dissolved: keeping sufficient steam on to boil continuously for two hours, afterwards letting off the liquor and washing for one hour in cold water. The stock is new ready dyeing in the same machine. for Since some mills have trouble with their dyed raw stock, which is often hard to card, the following process will no doubt prove of interest. Start the machine in the regular way with sufficient cold water; add the quired dyestuffs; then one gallon of soluble oil and ten pounds of soda ash and turn on a full head of steam. When up to the boiling point, add the usual amount Glauber's salts, or common salt. needed; and keep sufficient steam on all the time. The time required before sampling is from one to two hours. By the addition of soluble oil, it makes the stock so much easier to card, and this I know to be correct from practical experience as a dyer on raw stock, yarns, and piece goods.-Fiber and Fabric.

> "I wonder when the first surgical operation was performed.

"I suppose it was in Adam's time. When he had his fall he must have broken something."-Exchange.

SCOTCH SIZE OR KLEISTER

HIS IS an old preparation, well known to the majority of Cotton Manufacturers, on account of the general satisfaction it has always given. binder for both fine and coarse counts as it combines

readily with any starches, lays the surface fibre and holds the size well on the yarn. Manufacturers of exports and denims find it valuable, as it reduces shedding and loom waste to a minimum. Should use Raw Tallow or Soluble Tallow in addition. Write for formula,

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Want Department

Want Advertisements

If you are needing men for any position or have second hand ma-chinery, etc., to sell, the want columns of the Southern Textile Bulletin afford a good medium for advertising the fact.

Advertisements placed with us reach all the mills.

Employment Bureau.

The Employment Bureau is a feature of the Southern Textile Bulletin and we have better facilities for placing men in Southern mills than any other journal.

The cost of joining our employment bureau is only \$1.00 and there is no other cost unless a position secured, in which case a reasonable fee is charged.

We do not guarantee to place every man who joins our employment pureau, but we do give them the best service of any employment bureau.

Loom Fixers Wanted.

Want several good loom fixers C. & K. looms on ducks and drills Apply in person or by letter to Alexander City Cotton Mills. Alexander City, Ala.

BEAMERS WANTED.

WANTED AT ONCE, FOR NIGHT WORK, 10 SHORT CHAIN BEAMERS, PAY \$2.40 PER NIGHT, NONE BUT FIRST CLASS BEAMERS NEED APPLY, ADDRESS, A. C. WEST, OVERSEER BEAMING, BEAMERS

LOCKE CONCORD, N. C.

Cloth Room Overseer.

WANT-Overseer of Room, one who understands napping; none but good men need apply. Mill has 400 looms. Give reference and experience, also wages expected. Good position for right man. Address No. 1017.

WANT position as overseer of spinning, Experience on all numbers but prefer fine work. Am from the South but for several years have been with fine yarn mills at New Bedford and other New England towns. Good ref-erences. Address No. 143.

WANT position as overseer of cloth room. 20 years experience. 10 years at present place. Strictly sober. Good references. Address No. 144

Weavers and Fixers Wanted

WANTED-At once. good Draper and Crompton Loom Weavers on Chambrays and Ginghams. Good weavers earn with us from \$8.00 to \$12.00 per week. Can also use for our new loom addition some first class Draper and Stafford Loom Fix-Write or apply in person at once to

DAN RIVER COTTON MILLS, Danville, Va

WANT position as superintendent or overseer of large card room. Have had long experience and am now employed. Address No. 145.

WANT position as superintendent 27 years mill experience. 8 years on present position. Experienced on both white and colored goods. Satisfactory references. dress No. 146.

WANT position as overseer weaving. Experience on both plain and fancy goods but would prefer box loom job. Have filled former positions satisfactorily and can get production at low cost. Address No. 147.

WANT position as superintendent in North Carolina, South Carolina or Northern Georgia. Long experience and can furnish best of references as to ability and character. Address No. 148.

WANT position as overseer of weaving. Married. Age 40. Have run some of the largest rooms in S. C. and Ga. Can give good ref-erences Address No. 152

WANT position as superintendent. Have had long practical experience and am now assistant superintendent of a large mill and giving satisfaction. Can give as reference my present employers. Address No. 149.

WANT position as superintendent or carder in a large mill. 15 years experience as carder. 4 years as superintendent. Experienced on both plain and fancies. Best of references. Address No. 150.

WANT position as overseer of weaving in a good mill. Have had eleven yea s experience on plain and check work. Address No.

WANT position as overseer of weaving, 15 years' experience or both white and colored goods. Can furnish references from first class mills. Address No. 154.

WANT position as superintendent of either yarn or weaving mill of 5,000 to 15,000 spindles. At pres-

ent employed in fine colored goods mill. Age 32. Married. 20 years' experience. Good references. Address No. 155.

WANT position as overseer of carding or spinning. Have had long practical experience and am now holding position in first-class mill but prefer to change. Address No.

WANT position as superintendent. 36 years of age. Strictly sober. Best or references. Would con-sider large carding or spinning ob. Held present position six years. Address No. 157.

WANT position as overseer of spinning. 10 years' experience as overseer on No. 30's to 100's. Can give good references. Married. 30 years old. Address No. 158.

WANT position as superintendent. Have had long experience on coarse work and blanket manufacturing. First class references. Address No. 459.

WANT position as overseer of carding. Long experience and have always given satisfaction. employed but prefer to change Good references. Address No. 160.

WANT position as overseer of slashing, beaming (long or short chain), speoling, warping or drawing-in. Have had long experience and am expert on sizing. Address No. 161.

WANT position as superintendent. Now employed but prefer to change. Can furnish first class references both as to character and ability. Address No. 162.

WANT position as overseer spin-20 years experience, both colored and plain work. Age 41 Married. Can furnish best of references. Address No. 163.

WANT position as superintendent of small mill, not over 8,000 spindle son hosiery yarn, or overscor of large card room. Good refer-ences. Address No. 164.

WANT position as overseer of spinning, twisting, or in winding room 18 years experience in spinning fwisting. Familiar spooling, reeling and winding. Will not consider less than \$2.00 per day. Age 32. Married. Address No. 165.

WANT position as overseer of carding. Have had 21 years experience as overseer of carding in some of the best mills in the South ences.. Address No. 167. refer-

WANT position as mechanic sider less than \$2 per day. Address No. 168.

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WANT position as overseer of spinning. Have had long experience in some of the best mills of the South, Now employed. Will not accept less than \$3.50. Address No. 169.

WANT position as overseer of carding. 36 years old, married and can furnish best of references. Now employed in large mill, but wish to change. Address No. 170.

WANT position as superintendent Now employed in that capacity, but wish to change. Am exper ienced, and well recommended Address No. 171.

WANT position as overseer of weav-Experienced on duck, drills, sheetings and osnaburgs. Now employed, but can change on short notice. Will not accept less than \$3,50. Address No. 172.

WANT position as superintendent or overseer of carding and spin-ning at not less than \$4.00. Now employed in a large mill, but wish to change. Good references. Address No. 138.

WANT position as overseer of card-, 35 years old, married. Good habits, good references and long experience. Now employed but want larger position. Competent for any size room. Address No.

WANT position as overseer of carding in large mill or carder and spinner in small mill. Can give best of references and am strictly sober, with 14 years experience as carder. Address No. 175.

For July Cotton Report.

Washinton, D. C. - The amended House bill directing the Secretary of Agriculture to make a revised crop report on the acreage of cotton in the United States as July 1, each year was passed by the Senate. The house passed the bill on Feb. 6, and placed the acreage as of June 4. The Senate amended it, changing the date to July 1.

The bill will now go to a conference and it is expected will beelectrician. Have had practical come a law. Cotton growers and experience in machine shop and traders in staple of goods are in-electrical work. Can furnish terested in the bill as it is expect-good references. Would not con- ed to give more accurate reports of the cotton crop in the United The Principles of Carding Continued From Page 8.)

this combing action will gradually go so far as to cause "nap" by the incapacity to disentangle the fibre tufts into single fibres, and by rolling the fibres together in addition.

These three cases are quite dis-tinct, and can be observed in any They should be properly understood, as the good working of the card depends so much on the condition of the cylinder clothing whether it is absolutely clear, too full of "filling." or in good working condition.

Before we can examine the real work of the flats we must dwell a moment on the heel and toe of the card. A vague idea exists that the peculiar shape of the flat clothing known as the "heel-and-toe" to facilitate the admission of the fibres under the flat, and thus tend to better work. As a matter of fact, the "heel-and-toe" is much more important than is generally supposed, as will be seen from the following explanation. To understand the explanation thoroughly it will be necessary to define first the expressions, the more so as the two terms "heel" and "toe" are very often mix-The heel is the side of the flat clothing which is nearest the cylinder when the card is working It is the side of the flat against which the cylinder moves after it has passed the toe, and it does the real work of "carding," although the toe does also an appreciable amount of carding. However, the toe does more useful work in quite another respect. The toe being the side of the clothing which is farther away from the cylinder, and at that side of the flat to which the cylinder come near at first, the fibre tuft cuts or dashes into the flat through The heel and toe form a this toe. kind of inclined plane against which the fibre tuft dashes, which is taker round by the cylinder. As the plane is fairly easy, the fibres will rather go into the flat and remain in the direction the cylinder gives them, than recede into the cylinder clothing. If the toe were not there, and the whole flat came near the cylinder, then the fibres would first be worked hard against the points near the entrance into the flat, then roll ing would take place, which would make carding practically impossible. and the wires would be spoilt. But worst of all (because there might be means and ways of overcoming these difficulties), the impurities would settle in approximately even quan-tiles in the cylinder and in the flats. As it is, almost all the fibres are first taken by the flat (through the peculiar shape of the heel and toe) together with all the impurities, and only then the cylinder clothing takes the longer fibres out and cards them and the carding process takes places with the better material only, whilst the impurities remain in the flat to be taken out by the stripping brush

principles of carding to an even greater extent than is apparent on the surface. In fact, they fix even the question of which system of card should be whether the Wellman system, the the so-called "roller" or worker.

English system, or the Alsatian system. We shall, however, exam ne the advantages and disadvantages of each system, but before going into details we have to consider what really takes place between the cylinder and the flats. The usual reply is that there is a carding ac-tion between the two surfaces, but the actual process is of more complicated nature, as we shall presentsee. To understand fully what really takes place we have to com-mence observations at the licker-in, at the point where the fibres are taken away from it by the cylinder clothing. The cylinder takes the flbre tufts on by the ends of the points of its clothing. We can safely assume that the fibres are not devided up into single fibres yet at this point, and it can be shown that this is so. Assuming that fact to stand we can also see that these tufts will not enter into the filleting of the cylinder, but they will be laid on to the filleting, the tufts slipping easily between the fairly large interstices between the licker-in teeth The tufts then go forward with the cylinder until the fllats take the ends of the fibres which are sticking out, and which the centrifugal air current created by the cylinder projects into the path of the tops of the fllats ("tops" is the techincal name for the filleting on the flats) and is the flats are fairly empty then the bulk of the short fibres and motes, etc., sink at once into the filleting of the flats, lodging themselves well between the The longer fibres cannot sink bodily into the filleting of the flats and they are held both by the cylinder and the flat clothing, a combing or carding action being brought to bear on them. The shorter fibres and mots, etc., which lodge in the tufts nearer to the cylinder—i.e., almost directly on its surface—the partake also of the combing action, and part of these so-called purities go into the cylinder filleting, and part into the filleting of the tops. This explains the presence of much more impurities in the flats than in the cylinder clothing. We have here also the explanation why the flats of the flat cards are so valuable as a means for taking out the impurities.

After the above explanation it is quite clear that the flats cannot do their work so well in the "mixed because the fibres ready pressed well into the cylinder clothing, and the impurities with them. The action of the flats can therefore be only that of taking the ends of the long fibres projecting from the cylinder filleting and combing them out. The short fibres are already worked into the cylindclothing before the contact of the cylinder filleting with the tops of the flats take place. This is quite apparent when it is considered that that the rollers and clearers can take only a very limited amount of turer But the above facts affect the short fibre, and after a certain time rinciples of carding to an even these must pass, to the cylinder these must pass to the cylinder filleting again, except in the case of a restricted amount that remains in adopted- the rollers as filling, especially in

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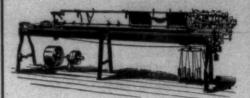
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have put out so many incipient fires as to well merit the appellation "Standard of the World." Thep have been leaders in the reduction of insurance cost through actual preventive measures. They absolutely prevent large fires by putting out

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Reprint from Textile Manufac- "that I will meet him in Schenectaof Manchester, Eng. (Continued Next Week.)

Changed Plans.

"How do you spell Schnectady?" asked the stenographer.

"S-c, S-c-er-erJer-er- Tell A Chicago banker was dictating a letter to his stenographer. "S-c, S-c-er-erJer-er— Tell him I'll meet him in Albany."—Chi"Tell Mr. So-and-So," he ordered, cago Post.

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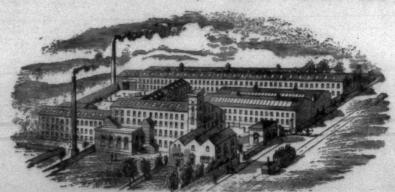
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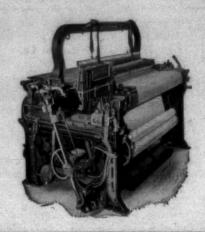
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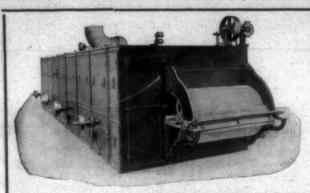
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